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L15 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1993:55136 CAPLUS  
 DN 118:55136  
 ED Entered STN: 16 Feb 1993  
 TI Modification of lysozyme with guar gum hydrolyzates for preparation of bactericides  
 IN Kato, Akio; Kobayashi, Kunihiro; Nakamura, Soichiro  
 PA Nakano Vinegar Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C12N009-36  
 ICA A61K037-54  
 CC 7-8 (Enzymes)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04304887	A	19921028	JP 1991-133797	19910329 <--
PRAI	JP 1991-133797		19910329		

## CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	JP 04304887	ICM	C12N009-36
		ICA	A61K037-54
		IPCI	C12N0009-36 [ICM,5]; A61K0037-54 [ICA,5]
AB	Lysozyme (I) is modified by aminocarbonylation with guar gum hydrolyzates, which are prepared by hydrolyzation of the polysaccharide with galactomannase and/or cellulase, for the preparation of bactericides having excellent emulsifying capability and <b>bacteriostatic</b> activity. The bactericides are <b>useful in food.</b> , pharmaceuticals, cosmetics, etc. The method is lower in cost than the prior art which uses dextran instead of guar gum hydrolyzates. Moreover, the modified I retains .apprx.80% bacteriolysis activity of I, as compared to 32% for that of the prior art.		
ST	lysozyme modification guar gum hydrolyzate bactericide; emulsifier lysozyme modification guar gum hydrolyzate		
IT	Bactericides, Disinfectants, and Antiseptics Emulsifying agents (lysozyme conjugated with guar gum hydrolyzates for preparation of)		
IT	Carbamoylation (lysozyme guar gum conjugates preparation by, as bactericides having bacteriostatic activity and high emulsifying capacity)		
IT	9000-30-0D, Guar gum, conjugation products with hydrolyzates of RL: BIOL (Biological study) (for preparation of bactericides having high emulsifying capacity)		
IT	9004-34-6, Cellulose, biological studies 50812-17-4, Galactomannanase RL: BIOL (Biological study) (guar gum hydrolyzed with, for preparation of lysozyme conjugate as bactericides having high emulsifying capacity)		
IT	9001-63-2DP, Lysozyme, conjugated with guar gum hydrolyzates RL: PREP (Preparation) (preparation of, as bactericides having high emulsifying capacity)		

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